## We Claim:

- 1. An active electrode composition, comprising:
  - a nickel hydroxide material;
  - a graphite having a crystallite height Lc of at least
- 5 125 nm; and
  - a polymeric binder.
  - 2. The active composition of claim 1, wherein said active composition is a paste.

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- 3. The active composition of claim 1, wherein said polymeric binder is an elastomeric polymer.
- 4. The active composition of claim 3, wherein said

  15 elastomeric polymer is a material selected from the group consisting of styrene-butadiene, styrene-butadiene block copolymer, styrene-isoprene-styrene block copolymer and styrene-ethylene-butadiene-styrene block copolymer.
- 20 5. The active composition of claim 1, wherein said graphite has a crystallite height Lc of at least 175 nm.

- 6. The active composition of claim 1, wherein said graphite has an interlayer distance c/2 between .335 nm and .345 nm.
- 5 7. The active composition of claim 1, wherein said graphite material has a BET surface area less than 15 square meters per gram.
- 8. The active composition of claim 1, wherein said active composition comprises at least 10 weight percent of said graphite material.
  - 9. An electrode for a battery cell, comprising: a nickel hydroxide material;
- a graphite having a crystallite size Lc of at least 125 nm; and
  - a polymeric binder.
- 20 10. The electrode of claim 9, wherein said polymeric binder is an elastomeric polymer.
  - 11. The electrode of claim 9, wherein said active composition is a paste.

- 12. The electrode of claim 10, wherein said elastomeric polymer comprises a material selected from the group consisting of styrene-butadiene, styrene-butadiene block copolymer, styrene-isoprene-styrene block copolymer and styrene-ethylene-butadiene-styrene block copolymer.
  - 13. The electrode of claim 9, wherein said graphite has a crystallite height Lc is at least 175 nm.

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14. The electrode of claim 9, wherein said active composition is affixed to a conductive substrate, said substrate selected from the group consisting expanded metal, perforated metal, screen or foil.

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15. A nickel-metal hydride battery cell, comprising:

a positive electrode comprising an active composition comprising a nickel hydroxide material, a graphite material having a crystallite height of at least 125 nm, and a polymeric binder;

a negative electrode comprising a hydrogen storage alloy active material; and an alkaline electrolyte.

- 16. The battery cell of claim 18, wherein said polymeric binder is an elastomeric polymer.
- 17. The electrochemical device of claim 18, wherein said  $5^{\star}$  active composition is a paste.
  - 18. The electrochemical device of claim 19, wherein said elastomeric polymer comprises a material selected from the group consisting of styrene-butadiene, styrene-butadiene block copolymer, styrene-isoprene-styrene block copolymer and styrene-ethylene-butadiene-styrene block copolymer.
- 19. The electrochemical device of claim 18, wherein said graphite has a crystallite height Lc of at least 175 nm.

styrene-butadiene.